Amendments to the Abstract

Please replace the paragraph at page 30, lines 7 through 23 with the following amended paragraph:

A long pulse alexandrite laser for treating dermatological specimens is disclosed. The use of alexandrite allows operation in the near-infrared, specifically in a 50 nm range surrounding 755. Infrared in this range allows good penetration while still achieving an acceptable ratio of hemoglobin to melanin absorption. ~~In operation, the laser generates pulses having a durations between 5 and 100 msec and fluences between 10 and 50 J/cm^2. A light delivery system is provided that transmits the laser light output pulse to dermatological targets of a patient.~~ In addition, a method and related system for treating biologic tissue with pulse light includes generating a long effective output light pulse comprising a series of sub-pulses having a fractional duty cycle over a selected effective pulse duration, a periodicity that is less than the thermal relaxation time of a targeted structure, and an interpulse-delay between successive sub-pulses that is greater than the thermal relaxation time of non-targeted structures within the treatment area; and delivering the output light to the tissue of a patient. ~~The invention is also directed to a hair removal system. Here, it is desirable to use an index-matching application on the skin sections to be treated, and a visual indicator is thermo- or photo-responsive or otherwise responsive to the laser light pulse to generate a visible change. Also, the invention is directed to a combined sclerotherapy and light treatment method and kit for unwanted veins. Substantially increased success has been achieved by implementing a dwell time of between 12 hours and 6 months between the light-based therapy and the sclerotherapy. Finally, the invention relates to pulse periodic heating of biologic targets, including systems and methods for generating an effective light output pulse comprising a series of sub-pulses with a limited duty cycle and a periodicity that is less than the thermal relaxation time of the targeted structure.~~